



## SEQUENCE LISTING

<110> Ish-Horowicz, David  
Henrique , Domingos Manuel Pinto  
Lewis, Julian Hart  
Artavanis Tsakonas, Spyridon  
Gray, Grace

<120> ANTIBODIES TO VERTEBRATE DELTA PROTEINS  
AND FRAGMENTS

<130> 7326-122-999

<140> 09/783, 931  
<141> 2001-02-15

<150> 08/981, 392  
<151> 1997-12-22

<150> PCT/US96/11178  
<151> 1996-06-28

<150> 60/000, 589  
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<170> FastSEQ for Windows Version 4.0

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<223> Chick Delta (C-Delta-1) gene

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acacaggggc aggaacgcga gcgctgccc tccgcc atg gga ggc cgc ttc ctg 294  
Met Gly Gly Arg Phe Leu  
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ctg acg ctc gcc ctc tgc gcg ctg ctg tgc cgc tgc cag gtt gac 342  
Leu Thr Leu Ala Leu Leu Ser Ala Leu Leu Cys Arg Cys Gln Val Asp  
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Gly Leu Leu Ser Asn Arg Asn Cys Cys Arg Gly Gly Pro Gly Gly  
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Lys His Tyr Gln Ala Ser Val Ser Pro Glu Pro Pro Cys Thr Tyr Gly	
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agc gcc atc acc ccc gtc ctc ggc gcc aac tcc ttc agc gtc ccc gac	582
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Phe Gly Phe Thr Trp Pro Gly Thr Phe Ser Leu Ile Ile Glu Ala Leu	
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cac acc gac tcc ccc gac gac ctc acc aca gaa aac ccc gag cgc ctc	726
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Cys Arg Pro Arg Asp Asp Arg Phe Gly His Phe Thr Cys Gly Glu Arg	
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Tyr Thr Gly Ser Ser Cys Glu Ile Glu Ile Asn Glu Cys Asp Ala Asn			
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Lys Arg His His Gln Pro Glu Ala Cys Arg Ser Glu Thr Glu Thr Met			
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Asp Tyr Asn Leu Val His Glu Leu Lys Asn Glu Asp Ser Val Lys Glu			
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Glu Glu Lys Ser Ala Val Gln Leu Lys Ser Ser Asp Thr Ser Glu Arg			
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Lys Arg Pro Asp Ser Val Tyr Ser Thr Ser Lys Asp Thr Lys Tyr Gln			
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<212> DNA

<213> Gallus gallus

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<223> Alternatively spliced chick Delta (C-Delta-1) gene

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<211> 721  
<212> PRT  
<213> *Xenopus*

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Val Asn Lys Lys Gly Leu Leu Gly Asn Met Asn Cys Cys Arg Pro Gly
35 40 45
Ser Leu Ala Ser Leu Gln Arg Cys Glu Cys Lys Thr Phe Phe Arg Ile
50 55 60
Cys Leu Lys His Tyr Gln Ser Asn Val Ser Pro Glu Pro Pro Cys Thr
65 70 75 80
Tyr Gly Gly Ala Val Thr Pro Val Leu Gly Thr Asn Ser Phe Val Val
85 90 95
Pro Glu Ser Ser Asn Ala Asp Pro Thr Phe Ser Asn Pro Ile Arg Phe
100 105 110
Pro Phe Gly Phe Thr Trp Pro Gly Thr Phe Ser Leu Ile Ile Glu Ala
115 120 125
Ile His Ala Asp Ser Ala Asp Asp Leu Asn Thr Glu Asn Pro Glu Arg
130 135 140
Leu Ile Ser Arg Leu Ala Thr Gln Arg His Leu Thr Val Gly Glu Gln
145 150 155 160
Trp Ser Gln Asp Leu His Ser Ser Asp Arg Thr Glu Leu Lys Tyr Ser
165 170 175
Tyr Arg Phe Val Cys Asp Glu Tyr Tyr Gly Glu Gly Cys Ser Asp
180 185 190
Tyr Cys Arg Pro Arg Asp Asp Ala Phe Gly His Phe Ser Cys Gly Glu
195 200 205
Lys Gly Glu Lys Leu Cys Asn Pro Gly Trp Lys Gly Leu Tyr Cys Thr
210 215 220
Glu Pro Ile Cys Leu Pro Gly Cys Asp Glu His His Gly Tyr Cys Asp

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225	230	235	240
Lys Pro Gly Glu Cys Lys Cys Arg Val Gly Trp Gln Gly Arg Tyr Cys			
245	250	255	
Asp Glu Cys Ile Arg Tyr Pro Gly Cys Leu His Gly Thr Cys Gln Gln			
260	265	270	
Pro Trp Gln Cys Asn Cys Gln Glu Gly Trp Gly Gly Leu Phe Cys Asn			
275	280	285	
Gln Asp Leu Asn Tyr Cys Thr His His Lys Pro Cys Glu Asn Gly Ala			
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Thr Cys Thr Asn Thr Gly Gln Gly Ser Tyr Thr Cys Ser Cys Arg Pro			
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Gly Tyr Thr Gly Ser Asn Cys Glu Ile Glu Val Asn Glu Cys Asp Ala			
325	330	335	
Asn Pro Cys Lys Asn Gly Gly Ser Cys Ser Asp Leu Glu Asn Ser Tyr			
340	345	350	
Thr Cys Ser Cys Pro Pro Gly Phe Tyr Gly Lys Asn Cys Glu Leu Ser			
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Ala Met Thr Cys Ala Asp Gly Pro Cys Phe Asn Gly Gly Arg Cys Ala			
370	375	380	
Asp Asn Pro Asp Gly Gly Tyr Ile Cys Phe Cys Pro Val Gly Tyr Ser			
385	390	395	400
Gly Phe Asn Cys Glu Lys Lys Ile Asp Tyr Cys Ser Ser Asn Pro Cys			
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Ala Asn Gly Ala Arg Cys Glu Asp Leu Gly Asn Ser Tyr Ile Cys Gln			
420	425	430	
Cys Gln Glu Gly Phe Ser Gly Arg Asn Cys Asp Asp Asn Leu Asp Asp			
435	440	445	
Cys Thr Ser Phe Pro Cys Gln Asn Gly Gly Thr Cys Gln Asp Gly Ile			
450	455	460	
Asn Asp Tyr Ser Cys Thr Cys Pro Pro Gly Tyr Ile Gly Lys Asn Cys			
465	470	475	480
Ser Met Pro Ile Thr Lys Cys Glu His Asn Pro Cys His Asn Gly Ala			
485	490	495	
Thr Cys His Glu Arg Asn Asn Arg Tyr Val Cys Gln Cys Ala Arg Gly			
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Tyr Gly Gly Asn Asn Cys Gln Phe Leu Leu Pro Glu Glu Lys Pro Val			
515	520	525	
Val Val Asp Leu Thr Glu Lys Tyr Thr Glu Gly Gln Ser Gly Gln Phe			
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Pro Trp Ile Ala Val Cys Ala Gly Ile Val Leu Val Leu Met Leu Leu			
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Leu Gly Cys Ala Ala Val Val Val Cys Val Arg Val Arg Val Gln Lys			
565	570	575	
Arg Arg His Gln Pro Glu Ala Cys Arg Gly Glu Ser Lys Thr Met Asn			
580	585	590	
Asn Leu Ala Asn Cys Gln Arg Glu Lys Asp Ile Ser Val Ser Phe Ile			
595	600	605	
Gly Thr Thr Gln Ile Lys Asn Thr Asn Lys Lys Ile Asp Phe Leu Ser			
610	615	620	
Glu Ser Asn Asn Glu Lys Asn Gly Tyr Lys Pro Arg Tyr Pro Ser Val			
625	630	635	640
Asp Tyr Asn Leu Val His Glu Leu Lys Asn Glu Asp Ser Pro Lys Glu			
645	650	655	
Glu Arg Ser Lys Cys Glu Ala Lys Cys Ser Ser Asn Asp Ser Asp Ser			
660	665	670	
Glu Asp Val Asn Ser Val His Ser Lys Arg Asp Ser Ser Glu Arg Arg			
675	680	685	
Arg Pro Asp Ser Ala Tyr Ser Thr Ser Lys Asp Thr Lys Tyr Gln Ser			
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Val Tyr Val Ile Ser Asp Glu Lys Asp Glu Cys Ile Ile Ala Thr Glu			
705	710	715	720

Val

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<211> 832  
<212> PRT  
<213> Drosophila

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Phe Ser Asn Asp His Gly Arg Asp Asn Glu Gly Arg Cys Cys Ser Gly  
35 40 45  
Glu Ser Asp Gly Ala Thr Gly Lys Cys Leu Gly Ser Cys Lys Thr Arg  
50 55 60  
Phe Arg Leu Cys Leu Lys His Tyr Gln Ala Thr Ile Asp Thr Thr Ser  
65 70 75 80  
Gln Cys Thr Tyr Gly Asp Val Ile Thr Pro Ile Leu Gly Glu Asn Ser  
85 90 95  
Val Asn Leu Thr Asp Ala Gln Arg Phe Gln Asn Lys Gly Phe Thr Asn  
100 105 110  
Pro Ile Gln Phe Pro Phe Ser Phe Ser Trp Pro Gly Thr Phe Ser Leu  
115 120 125  
Ile Val Glu Ala Trp His Asp Thr Asn Asn Ser Gly Asn Ala Arg Thr  
130 135 140  
Asn Lys Leu Leu Ile Gln Arg Leu Leu Val Gln Gln Val Leu Glu Val  
145 150 155 160  
Ser Ser Glu Trp Lys Thr Asn Lys Ser Glu Ser Gln Tyr Thr Ser Leu  
165 170 175  
Glu Tyr Asp Phe Arg Val Thr Cys Asp Leu Asn Tyr Tyr Gly Ser Gly  
180 185 190  
Cys Ala Lys Phe Cys Arg Pro Arg Asp Asp Ser Phe Gly His Ser Thr  
195 200 205  
Cys Ser Glu Thr Gly Glu Ile Ile Cys Leu Thr Gly Trp Gln Gly Asp  
210 215 220  
Tyr Cys His Ile Pro Lys Cys Ala Lys Gly Cys Glu His Gly His Cys  
225 230 235 240  
Asp Lys Pro Asn Gln Cys Val Cys Gln Leu Gly Trp Lys Gly Ala Leu  
245 250 255  
Cys Asn Glu Cys Val Leu Glu Pro Asn Cys Ile His Gly Thr Cys Asn  
260 265 270  
Lys Pro Trp Thr Cys Ile Cys Asn Glu Gly Trp Gly Gly Leu Tyr Cys  
275 280 285  
Asn Gln Asp Leu Asn Tyr Cys Thr Asn His Arg Pro Cys Lys Asn Gly  
290 295 300  
Gly Thr Cys Phe Asn Thr Gly Glu Gly Leu Tyr Thr Cys Lys Cys Ala  
305 310 315 320  
Pro Gly Tyr Ser Gly Asp Asp Cys Glu Asn Glu Ile Tyr Ser Cys Asp  
325 330 335  
Ala Asp Val Asn Pro Cys Gln Asn Gly Gly Thr Cys Ile Asp Glu Pro  
340 345 350  
His Thr Lys Thr Gly Tyr Lys Cys His Cys Arg Asn Gly Trp Ser Gly  
355 360 365  
Lys Met Cys Glu Glu Lys Val Leu Thr Cys Ser Asp Lys Pro Cys His  
370 375 380  
Gln Gly Ile Cys Arg Asn Val Arg Pro Gly Leu Gly Ser Lys Gly Gln  
385 390 395 400  
Gly Tyr Gln Cys Glu Cys Pro Ile Gly Tyr Ser Gly Pro Asn Cys Asp

405

410

415

Leu Gln Leu Asp Asn Cys Ser Pro Asn Pro Cys Ile Asn Gly Gly Ser  
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 Cys Gln Pro Ser Gly Lys Cys Ile Cys Pro Ser Gly Phe Ser Gly Thr  
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 Arg Cys Glu Thr Asn Ile Asp Asp Cys Leu Gly His Gln Cys Glu Asn  
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 Gly Gly Thr Cys Ile Asp Met Val Asn Gln Tyr Arg Cys Gln Cys Val  
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 Pro Gly Phe His Gly Thr His Cys Ser Ser Lys Val Asp Leu Cys Leu  
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 Ile Arg Pro Cys Ala Asn Gly Gly Thr Cys Leu Asn Leu Asn Asn Asp  
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 Tyr Gln Cys Thr Cys Arg Ala Gly Phe Thr Gly Lys Asp Cys Ser Val  
     515                          520                          525  
 Asp Ile Asp Glu Cys Ser Ser Gly Pro Cys His Asn Gly Gly Thr Cys  
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 Met Asn Arg Val Asn Ser Phe Glu Cys Val Cys Ala Asn Gly Phe Arg  
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 Gly Lys Gln Cys Asp Glu Glu Ser Tyr Asp Ser Val Thr Phe Asp Ala  
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 His Gln Tyr Gly Ala Thr Thr Gln Ala Arg Ala Asp Gly Leu Ala Asn  
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 Asn Ala Val Ala Thr Met His His Asn Gly Ser Ala Val Gly Val Ala  
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 Thr Phe Asp Gly Gly Asn Pro Asn Ile Ile Lys Asn Thr Trp Asp Lys  
     675                          680                          685  
 Ser Val Asn Asn Ile Cys Ala Ser Ala Ala Ala Ala Ala Ala Ala Ala  
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 Ala Ala Ala Asp Glu Cys Leu Met Tyr Gly Gly Tyr Val Ala Ser Val  
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 Ala Asp Asn Asn Asn Ala Asn Ser Asp Phe Cys Val Ala Pro Leu Gln  
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 Arg Ala Lys Ser Gln Lys Gln Leu Asn Thr Asp Pro Thr Leu Met His  
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 Arg Gly Ser Pro Ala Gly Thr Ser Ala Lys Gly Ala Ser Gly Gly Gly  
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 Pro Gly Ala Ala Glu Gly Lys Arg Ile Ser Val Leu Gly Glu Gly Ser  
     770                          775                          780  
 Tyr Cys Ser Gln Arg Trp Pro Ser Leu Ala Ala Gly Val Ala Gly  
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 Asp Leu Phe Ile Gln Leu Met Ala Ala Ala Ser Val Ala Gly Thr Asp  
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&lt;211&gt; 46

&lt;212&gt; PRT

&lt;213&gt; Drosophila

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Gly Gln Lys Leu Cys Leu Asn Gly Trp Gln Gly Val Asn Cys  
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<210> 8

<211> 45

<212> PRT

<213> Gallus gallus

<400> 8

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Asn Lys Thr Cys Leu Glu Gly Trp Thr Gly Pro Glu Cys  
35 40 45

<210> 9

<211> 43

<212> PRT

<213> Drosophila

<400> 9

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Arg Cys Ser Ala Gly Trp Ser Gly Glu Asp Cys  
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<210> 10

<211> 45

<212> PRT

<213> Drosophila

<400> 10

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35 40 45

<210> 11

<211> 2692

<212> DNA

<213> mouse

<220>

<221> CDS

<222> (31)...(2199)

<223> Mouse Delta (M-Delta-1) gene

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gcc ctt gcc gtg gtc tct gcc ctg ctg tgc cag gtc tgg agc tcc ggc					102
Ala Leu	Ala Val	Val Ser	Ala Leu	Leu Cys Gln Val Trp Ser Ser Gly	
10	15		20		
gta ttt gag ctg aag ctg cag gag ttc gtc aac aag aag ggg ctg ctg					150
Val Phe	Glu Leu	Lys Leu	Gln Glu	Phe Val Asn Lys Lys Gly Leu Leu	
25	30		35	40	
ggg aac cgc aac tgc tgc cgc ggg ggc tct ggc ccg cct tgc gcc tgc					198
Gly Asn	Arg Asn	Cys Cys	Arg Gly	Ser Gly Pro Pro Cys Ala Cys	
45		50		55	
agg acc ttc ttt cgc gta tgc ctc aag cac tac cag gcc agc gtg tca					246
Arg Thr	Phe Phe	Arg Val	Cys Leu	Lys His Tyr Gln Ala Ser Val Ser	
60		65		70	
ccg gag cca ccc tgc acc tac ggc agt gcc gtc acg cca gtg ctg ggt					294
Pro Glu	Pro Pro	Cys Thr	Tyr Gly	Ser Ala Val Thr Pro Val Leu Gly	
75		80		85	
gtc gac tcc ttc agc ctg cct gat ggc gca ggc atc gac ccc gcc ttc					342
Val Asp	Ser Phe	Ser Leu	Pro Asp	Gly Ala Gly Ile Asp Pro Ala Phe	
90		95		100	
agc aac ccc atc cga ttc ccc ttc ggc ttc acc tgg cca ggt acc ttc					390
Ser Asn	Pro Ile	Arg Phe	Pro Phe	Gly Phe Thr Trp Pro Gly Thr Phe	
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tct ctg atc att gaa gcc ctc cat aca gac tct ccc gat gac ctc gca					438
Ser Leu	Ile Ile	Glu Ala	Leu His	Thr Asp Ser Pro Asp Asp Leu Ala	
125		130		135	
aca gaa aac cca gaa aga ctc atc agc cgc ctg acc aca cag agg cac					486
Thr Glu	Asn Pro	Glu Arg	Leu Ile	Ser Arg Leu Thr Thr Gln Arg His	
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ctc act gtg gga gaa gaa tgg tct cag gac ctt cac agt agc ggc cgc					534
Leu Thr	Val Gly	Glu Glu	Trp Ser	Gln Asp Leu His Ser Ser Gly Arg	
155		160		165	
aca gac ctc cgg tac tct tac cgg ttt gtg tgt gac gag cac tac tac					582
Thr Asp	Leu Arg	Tyr Ser	Tyr Arg	Phe Val Cys Asp Glu His Tyr Tyr	
170		175		180	
gga gaa ggt tgc tct gtg ttc tgc cga cct cgg gat gac gcc ttt ggc					630
Gly Glu	Gly Cys	Ser Val	Phe Cys	Arg Pro Arg Asp Asp Ala Phe Gly	
185		190		195	200
cac ttc acc tgc ggg gac aga ggg gag aag atg tgc gac cct ggc tgg					678
His Phe	Thr Cys	Gly Asp	Arg Gly	Glu Lys Met Cys Asp Pro Gly Trp	
205		210		215	
aaa ggc cag tac tgc act gac cca atc tgt ctg cca ggg tgt gat gac					726
Lys Gly	Gln Tyr	Cys Thr	Asp Pro	Ile Cys Leu Pro Gly Cys Asp Asp	
220		225		230	

caa cat gga tac tgt gac aaa cca ggg gag tgc aag tgc aga gtt ggc	774
Gln His Gly Tyr Cys Asp Lys Pro Gly Glu Cys Lys Cys Arg Val Gly	
235 240 245	
tgg cag ggc cgc tac tgc gat gag tgc atc cga tac cca ggt tgt gtc	822
Trp Gln Gly Arg Tyr Cys Asp Glu Cys Ile Arg Tyr Pro Gly Cys Val	
250 255 260	
cat ggc acc tgc cag caa ccc tgg cag tgt aac tgc cag gaa ggc tgg	870
His Gly Thr Cys Gln Gln Pro Trp Gln Cys Asn Cys Gln Glu Gly Trp	
265 270 275 280	
ggg ggc ctt ttc tgc aac caa gac ctg aac tac tgt act cac cat aag	918
Gly Gly Leu Phe Cys Asn Gln Asp Leu Asn Tyr Cys Thr His His Lys	
285 290 295	
ccg tgc agg aat gga gcc acc tgc acc aac acg ggc cag ggg agc tac	966
Pro Cys Arg Asn Gly Ala Thr Cys Thr Asn Thr Gly Gln Gly Ser Tyr	
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aca tgt tcc tgc cga cct ggg tat aca ggt gcc aac tgt gag ctg gaa	1014
Thr Cys Ser Cys Arg Pro Gly Tyr Thr Gly Ala Asn Cys Glu Leu Glu	
315 320 325	
gta gat gag tgt gct cct agc ccc tgc aag aac gga gcg agc tgc acg	1062
Val Asp Glu Cys Ala Pro Ser Pro Cys Lys Asn Gly Ala Ser Cys Thr	
330 335 340	
gac ctt gag gac agc ttc tct tgc acc tgc cct ccc ggc ttc tat ggc	1110
Asp Leu Glu Asp Ser Phe Ser Cys Thr Cys Pro Pro Gly Phe Tyr Gly	
345 350 355 360	
aag gtc tgt gag ctg agc gcc atg acc tgt gca gat ggc cct tgc ttc	1158
Lys Val Cys Glu Leu Ser Ala Met Thr Cys Ala Asp Gly Pro Cys Phe	
365 370 375	
aat gga gga cga tgt tca gat aac cct gac gga ggc tac acc tgc cat	1206
Asn Gly Gly Arg Cys Ser Asp Asn Pro Asp Gly Gly Tyr Thr Cys His	
380 385 390	
tgc ccc ttg ggc ttc tct ggc ttc aac tgt gag aag aag atg gat ctc	1254
Cys Pro Leu Gly Phe Ser Gly Phe Asn Cys Glu Lys Lys Met Asp Leu	
395 400 405	
tgc ggc tct tcc cct tgt tct aac ggt gcc aag tgt gtg gac ctc ggc	1302
Cys Gly Ser Ser Pro Cys Ser Asn Gly Ala Lys Cys Val Asp Leu Gly	
410 415 420	
aac tct tac ctg tgc cgg tgc cag gct ggc ttc tcc ggg agg tac tgc	1350
Asn Ser Tyr Leu Cys Arg Cys Gln Ala Gly Phe Ser Gly Arg Tyr Cys	
425 430 435 440	
gag gac aat gtg gat gac tgt gcc tcc tcc ccg tgt gca aat ggg ggc	1398
Glu Asp Asn Val Asp Asp Cys Ala Ser Ser Pro Cys Ala Asn Gly Gly	
445 450 455	
acc tgc cgg gac agt gtg aac gac ttc tcc tgt acc tgc cca cct ggc	1446
Thr Cys Arg Asp Ser Val Asn Asp Phe Ser Cys Thr Cys Pro Pro Gly	
460 465 470	

tac acg ggc aag aac tgc agc gcc cct gtc agc agg tgt gag cat gca		1494	
Tyr Thr Gly Lys Asn Cys Ser Ala Pro Val Ser Arg Cys Glu His Ala			
475	480	485	
ccc tgc cat aat ggg gcc acc tgc cac cag agg ggc cag cgc tac atg		1542	
Pro Cys His Asn Gly Ala Thr Cys His Gln Arg Gly Gln Arg Tyr Met			
490	495	500	
tgt gag tgc gcc cag ggc tat ggc ggc ccc aac tgc cag ttt ctg ctc		1590	
Cys Glu Cys Ala Gln Gly Tyr Gly Pro Asn Cys Gln Phe Leu Leu			
505	510	520	
cct gag cca cca cca ggg ccc atg gtg gtg gac ctc agt gag agg cat		1638	
Pro Glu Pro Pro Pro Gly Pro Met Val Val Asp Leu Ser Glu Arg His			
525	530	535	
atg gag agc cag ggc ggg ccc ttc ccc tgg gtg gcc gtg tgt gcc ggg		1686	
Met Glu Ser Gln Gly Gly Pro Phe Pro Trp Val Ala Val Cys Ala Gly			
540	545	550	
gtg gtg ctt gtc ctc ctg ctg ctg ggc tgt gct gct gtg gtg gtc		1734	
Val Val Leu Val Leu Leu Leu Leu Gly Cys Ala Ala Val Val Val			
555	560	565	
tgc gtc cg <sup>g</sup> ctg aag cta cag aaa cac cag cct cca cct gaa ccc tgt		1782	
Cys Val Arg Leu Lys Leu Gln Lys His Gln Pro Pro Pro Glu Pro Cys			
570	575	580	
ggg gga gag aca gaa acc atg aac aac cta gcc aat tgc cag cgc gag		1830	
Gly Gly Glu Thr Glu Thr Met Asn Asn Leu Ala Asn Cys Gln Arg Glu			
585	590	595	600
aag gac gtt tct gtt agc atc att ggg gct acc cag atc aag aac acc		1878	
Lys Asp Val Ser Val Ser Ile Ile Gly Ala Thr Gln Ile Lys Asn Thr			
605	610	615	
aac aag aag gcg gac ttt cac ggg gac cat gga gcc gag aag agc agc		1926	
Asn Lys Lys Ala Asp Phe His Gly Asp His Gly Ala Glu Lys Ser Ser			
620	625	630	
ttt aag gtc cga tac ccc act gtg gac tat aac ctc gtt cga gac ctc		1974	
Phe Lys Val Arg Tyr Pro Thr Val Asp Tyr Asn Leu Val Arg Asp Leu			
635	640	645	
aag gga gat gaa gcc acg gtc agg gat aca cac agc aaa cgt gac acc		2022	
Lys Gly Asp Glu Ala Thr Val Arg Asp Thr His Ser Lys Arg Asp Thr			
650	655	660	
aag tgc cag tca cag agt ctg cag gag aag aga aga tcg ccc caa cac		2070	
Lys Cys Gln Ser Gln Ser Leu Gln Glu Lys Arg Arg Ser Pro Gln His			
665	670	675	680
tta ggg gtg ggg aga ttc ctg aca gaa aac agg cca gag tct gtc tac		2118	
Leu Gly Val Gly Arg Phe Leu Thr Glu Asn Arg Pro Glu Ser Val Tyr			
685	690	695	
tct act tca aag gac acc aag tac cag tcg gtg tat gtt ctg tct gca		2166	
Ser Thr Ser Lys Asp Thr Lys Tyr Gln Ser Val Tyr Val Leu Ser Ala			
700	705	710	
gaa aag gat gag tgt gtt ata gcg act gag gtg taagatggaa gcgatgtggc		2219	

Glu Lys Asp Glu Cys Val Ile Ala Thr Glu Val  
715 720

aaaattccca tttctcttaa ataaaattcc aaggatatac ccccgatgaa tgctgctgag 2279  
agaggaaggg agaggaaacc cagggactgc tgctgagaac caggttcagg cgaacgtgg 2339  
tctctcagag ttagcagagg cgccccacac tgccagccta ggcttggct gccgctgg 2399  
tgccctgctgg ttgttcccat tgcactatgg acagttgctt tgaagagtat atatttaat 2459  
ggacgagtga ctgttcat ataggaagca cgcactgccc acacgtctat cttggattac 2519  
tatgagccag tcttccttg aactagaaac acaactgcct ttattgtcct ttttgatact 2579  
gagatgtgtt tttttttt cctagacggg aaaaagaaaa cgtgtttat ttttttggg 2639  
atttgtaaaa atattttca tgattatggg agagctccca acgcgttgg ggt 2692

<210> 12  
<211> 722  
<212> PRT  
<213> mouse

<400> 12  
Met Gly Arg Arg Ser Ala Leu Ala Leu Ala Val Val Ser Ala Leu Leu  
1 5 10 15  
Cys Gln Val Trp Ser Ser Gly Val Phe Glu Leu Lys Leu Gln Glu Phe  
20 25 30  
Val Asn Lys Lys Gly Leu Leu Gly Asn Arg Asn Cys Cys Arg Gly Gly  
35 40 45  
Ser Gly Pro Pro Cys Ala Cys Arg Thr Phe Phe Arg Val Cys Leu Lys  
50 55 60  
His Tyr Gln Ala Ser Val Ser Pro Glu Pro Pro Cys Thr Tyr Gly Ser  
65 70 75 80  
Ala Val Thr Pro Val Leu Gly Val Asp Ser Phe Ser Leu Pro Asp Gly  
85 90 95  
Ala Gly Ile Asp Pro Ala Phe Ser Asn Pro Ile Arg Phe Pro Phe Gly  
100 105 110  
Phe Thr Trp Pro Gly Thr Phe Ser Leu Ile Ile Glu Ala Leu His Thr  
115 120 125  
Asp Ser Pro Asp Asp Leu Ala Thr Glu Asn Pro Glu Arg Leu Ile Ser  
130 135 140  
Arg Leu Thr Thr Gln Arg His Leu Thr Val Gly Glu Glu Trp Ser Gln  
145 150 155 160  
Asp Leu His Ser Ser Gly Arg Thr Asp Leu Arg Tyr Ser Tyr Arg Phe  
165 170 175  
Val Cys Asp Glu His Tyr Tyr Gly Glu Gly Cys Ser Val Phe Cys Arg  
180 185 190  
Pro Arg Asp Asp Ala Phe Gly His Phe Thr Cys Gly Asp Arg Gly Glu  
195 200 205  
Lys Met Cys Asp Pro Gly Trp Lys Gly Gln Tyr Cys Thr Asp Pro Ile  
210 215 220  
Cys Leu Pro Gly Cys Asp Asp Gln His Gly Tyr Cys Asp Lys Pro Gly  
225 230 235 240  
Glu Cys Lys Cys Arg Val Gly Trp Gln Gly Arg Tyr Cys Asp Glu Cys  
245 250 255  
Ile Arg Tyr Pro Gly Cys Val His Gly Thr Cys Gln Gln Pro Trp Gln  
260 265 270  
Cys Asn Cys Gln Glu Gly Trp Gly Gly Leu Phe Cys Asn Gln Asp Leu  
275 280 285  
Asn Tyr Cys Thr His His Lys Pro Cys Arg Asn Gly Ala Thr Cys Thr  
290 295 300  
Asn Thr Gly Gln Gly Ser Tyr Thr Cys Ser Cys Arg Pro Gly Tyr Thr  
305 310 315 320  
Gly Ala Asn Cys Glu Leu Glu Val Asp Glu Cys Ala Pro Ser Pro Cys  
325 330 335  
Lys Asn Gly Ala Ser Cys Thr Asp Leu Glu Asp Ser Phe Ser Cys Thr

340	345	350
Cys Pro Pro Gly Phe Tyr Gly Lys	Val Cys Glu Leu Ser	Ala Met Thr
355	360	365
Cys Ala Asp Gly Pro Cys Phe Asn Gly Gly Arg	Cys Ser Asp Asn Pro	
370	375	380
Asp Gly Gly Tyr Thr Cys His Cys Pro Leu Gly	Phe Ser Gly Phe Asn	
385	390	400
Cys Glu Lys Lys Met Asp Leu Cys Gly Ser Ser	Pro Cys Ser Asn Gly	
405	410	415
Ala Lys Cys Val Asp Leu Gly Asn Ser Tyr Leu Cys Arg	Cys Gln Ala	
420	425	430
Gly Phe Ser Gly Arg Tyr Cys Glu Asp Asn Val Asp	Asp Cys Ala Ser	
435	440	445
Ser Pro Cys Ala Asn Gly Gly Thr Cys Arg Asp	Ser Val Asn Asp Phe	
450	455	460
Ser Cys Thr Cys Pro Pro Gly Tyr Thr Gly Lys	Asn Cys Ser Ala Pro	
465	470	480
Val Ser Arg Cys Glu His Ala Pro Cys His Asn Gly	Ala Thr Cys His	
485	490	495
Gln Arg Gly Gln Arg Tyr Met Cys Glu Cys Ala Gln	Gly Tyr Gly Gly	
500	505	510
Pro Asn Cys Gln Phe Leu Leu Pro Glu Pro Pro Pro	Gly Pro Met Val	
515	520	525
Val Asp Leu Ser Glu Arg His Met Glu Ser Gln	Gly Pro Phe Pro	
530	535	540
Trp Val Ala Val Cys Ala Gly Val Val Leu Val	Leu Leu Leu Leu Leu	
545	550	555
Gly Cys Ala Ala Val Val Val Cys Val Arg Leu Lys	Leu Gln Lys His	
565	570	575
Gln Pro Pro Pro Glu Pro Cys Gly Gly Glu Thr Glu	Thr Met Asn Asn	
580	585	590
Leu Ala Asn Cys Gln Arg Glu Lys Asp Val Ser Val	Ser Ile Ile Gly	
595	600	605
Ala Thr Gln Ile Lys Asn Thr Asn Lys Lys Ala Asp	Phe His Gly Asp	
610	615	620
His Gly Ala Glu Lys Ser Ser Phe Lys Val Arg	Tyr Pro Thr Val Asp	
625	630	640
Tyr Asn Leu Val Arg Asp Leu Lys Gly Asp Glu Ala	Thr Val Arg Asp	
645	650	655
Thr His Ser Lys Arg Asp Thr Lys Cys Gln Ser Gln	Ser Leu Gln Glu	
660	665	670
Lys Arg Arg Ser Pro Gln His Leu Gly Val Gly Arg	Phe Leu Thr Glu	
675	680	685
Asn Arg Pro Glu Ser Val Tyr Ser Thr Ser Lys Asp	Thr Lys Tyr Gln	
690	695	700
Ser Val Tyr Val Leu Ser Ala Glu Lys Asp Glu Cys	Val Ile Ala Thr	
705	710	720
Glu Val		

<210> 13  
 <211> 578  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Consenses sequence of Chick Delta and Mouse Delta

<400> 13  
 Met Gly Arg Leu Leu Ala Ser Ala Leu Leu Cys Val Ser Gly Val Phe

1	5	10	15												
Glu	Leu	Lys	Leu	Gln	Glu	Phe	Val	Asn	Lys	Lys	Gly	Leu	Leu	Asn	Arg
			20			25						30			
Asn	Cys	Cys	Arg	Gly	Gly	Gly	Cys	Cys	Thr	Phe	Phe	Arg	Val	Cys	Leu
			35			40						45			
Lys	His	Tyr	Gln	Ala	Ser	Val	Ser	Pro	Glu	Pro	Pro	Cys	Thr	Tyr	Gly
			50			55						60			
Ser	Ala	Thr	Pro	Val	Leu	Gly	Ser	Phe	Ser	Pro	Asp	Gly	Ala	Gly	Asp
			65			70					75			80	
Pro	Ala	Phe	Ser	Asn	Pro	Ile	Arg	Phe	Pro	Phe	Gly	Phe	Thr	Trp	Pro
						85					90			95	
Gly Thr Phe Ser Leu Ile Ile Glu Ala Leu His Thr Asp Ser Pro Asp															
			100			105						110			
Asp	Leu	Thr	Glu	Asn	Pro	Glu	Arg	Leu	Ile	Ser	Arg	Leu	Thr	Gln	Arg
			115			120						125			
His	Leu	Val	Gly	Glu	Glu	Trp	Ser	Gln	Asp	Leu	His	Ser	Ser	Gly	Arg
			130			135						140			
Thr	Asp	Leu	Tyr	Ser	Tyr	Arg	Phe	Val	Cys	Asp	Glu	His	Tyr	Tyr	Gly
			145			150					155			160	
Glu	Gly	Cys	Ser	Val	Phe	Cys	Arg	Pro	Arg	Asp	Asp	Phe	Gly	His	Phe
					165					170			175		
Thr	Cys	Gly	Arg	Gly	Glu	Lys	Cys	Pro	Gly	Trp	Lys	Gly	Gln	Tyr	Cys
			180			185						190			
Thr	Pro	Ile	Cys	Leu	Pro	Gly	Cys	Asp	Gln	His	Gly	Cys	Asp	Lys	Pro
			195			200						205			
Gly	Glu	Cys	Lys	Cys	Arg	Val	Gly	Trp	Gln	Gly	Arg	Tyr	Cys	Asp	Glu
			210			215					220				
Cys	Ile	Arg	Tyr	Pro	Gly	Cys	Val	His	Gly	Thr	Cys	Gln	Gln	Pro	Trp
			225			230					235			240	
Gln	Cys	Asn	Cys	Gln	Glu	Gly	Trp	Gly	Gly	Leu	Phe	Cys	Asn	Gln	Asp
					245					250			255		
Leu	Asn	Tyr	Cys	Thr	His	His	Lys	Pro	Cys	Asn	Gly	Ala	Thr	Cys	Thr
			260			265						270			
Asn	Thr	Gly	Gln	Gly	Ser	Tyr	Thr	Cys	Ser	Cys	Arg	Pro	Gly	Tyr	Thr
			275			280						285			
Gly	Cys	Glu	Glu	Glu	Cys	Pro	Cys	Lys	Asn	Gly	Ser	Cys	Thr	Asp	Leu
			290			295					300				
Glu	Ser	Ser	Cys	Thr	Cys	Pro	Pro	Gly	Phe	Tyr	Gly	Lys	Cys	Glu	Leu
			305			310					315			320	
Ser	Ala	Met	Thr	Cys	Ala	Asp	Gly	Pro	Cys	Phe	Asn	Gly	Gly	Arg	Cys
					325					330			335		
Asp	Asn	Pro	Asp	Gly	Gly	Tyr	Cys	Cys	Pro	Leu	Gly	Ser	Gly	Phe	Asn
			340			345						350			
Cys	Glu	Lys	Lys	Asp	Cys	Ser	Ser	Pro	Cys	Asn	Gly	Ala	Cys	Val	Asp
			355			360						365			
Leu	Gly	Asn	Ser	Tyr	Cys	Cys	Gln	Ala	Gly	Phe	Gly	Arg	Cys	Asp	Asn
			370			375						380			
Val	Asp	Asp	Cys	Ala	Ser	Pro	Cys	Asn	Gly	Gly	Thr	Cys	Asp	Val	Asn
			385			390					395			400	
Asp	Ser	Cys	Thr	Cys	Pro	Pro	Gly	Tyr	Gly	Lys	Asn	Cys	Ser	Pro	Val
			405			410						415			
Ser	Arg	Cys	Glu	His	Pro	Cys	His	Asn	Gly	Ala	Thr	Cys	His	Arg	Arg
			420			425						430			
Tyr	Cys	Glu	Cys	Ala	Gly	Tyr	Gly	Gly	Asn	Cys	Gln	Phe	Leu	Leu	Pro
					435							445			
Glu	Pro	Pro	Gly	Pro	Val	Asp	Glu	Glu	Gln	Phe	Pro	Trp	Ala	Val	Cys
					450			455				460			
Ala	Gly	Leu	Val	Leu	Leu	Leu	Gly	Cys	Ala	Ala	Val	Val	Cys	Val	
			465			470					475			480	

Arg	Leu	Lys	Gln	Lys	Pro	Glu	Cys	Glu	Thr	Glu	Thr	Met	Asn	Asn	Leu
					485					490					495
Ala	Asn	Cys	Gln	Arg	Glu	Lys	Asp	Ser	Ser	Ile	Gly	Ala	Thr	Gln	Ile
					500					505					510
Lys	Asn	Thr	Asn	Lys	Lys	Asp	Phe	His	Asp	Lys	Lys	Val	Arg	Tyr	Pro
					515					520					525
Val	Asp	Tyr	Asn	Leu	Val	Leu	Lys	Val	His	Lys	Lys	Cys	Ser	Glu	Glu
					530					535					540
Lys	Ala	Leu	Arg	Lys	Arg	Pro	Ser	Val	Tyr	Ser	Thr	Ser	Lys	Asp	Thr
					545					550					560
Lys	Tyr	Gln	Ser	Val	Tyr	Val	Ser	Glu	Lys	Asp	Glu	Cys	Ile	Ala	Thr
					565					570					575
Glu Val															

<210> 14  
<211> 525  
<212> DNA  
<213> Homo sapiens

<400> 14  
tacgatgaay aacctggcga actgccagcg tgagaaggac atctcagtca gcatcatcg 60  
ggcyacgtca gatcargaac accaacaaga aggccggactt ymcascgggg gaccasagcg 120  
tccgacaaga atggmtttca aggccccta ccccagcgtg gactataact cgtgcaggac 180  
ctcaagggtg acgacaccgc cgtcaggacg tcgcacagca agcgtgacac caagtgccag 240  
tccccaggct cctcagggag gagaagggaa ccccgaccac actcaggggk tgcgtgctgc 300  
ggcccggtc caggaggggg tacctggggg gtgtcttcct ggaaccactg ctccgtttct 360  
cttcccaaat gttctcatgc attcattgtg gattttctct atttccttt tagtgagaa 420  
gcatctgaaa gaaaaaggcc ggactcgggc tgttcaactt caaaagacac caagtaccag 480  
tcggtgtacg tcatatccga ggagaaggac gagtgcgtca tcgca 525

<210> 15  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Predicted amino acid sequence of humna delta

<220>  
<221> VARIANT  
<222> 4  
<223> Xaa = Any Amino Acid

<400> 15  
Tyr Asp Glu Xaa Pro Gly Glu Leu Pro Ala  
1 5 10

<210> 16  
<211> 44  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Predicted amino acid sequence of humna delta

<220>  
<221> VARIANT  
<222> 11, 15, 23, 24, 28

<223> Xaa = Any Amino Acid

<400> 16  
Glu Gly His Leu Ser Gln His His Arg Gly Xaa Val Arg Ser Xaa Thr  
1 5 10 15  
Pro Thr Arg Arg Arg Thr Xaa Xaa Arg Gly Thr Xaa Ala Ser Asp Lys  
20 25 30  
Asn Gly Phe Gln Gly Pro Leu Pro Gln Arg Gly Leu  
35 40

<210> 17

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Predicted amino acid sequence of humna delta

<220>

<221> VARIANT

<222> 41

<223> Xaa = Any Amino Acid

<400> 17

Leu Val Gln Asp Leu Lys Gly Asp Asp Thr Ala Val Arg Thr Ser His  
1 5 10 15  
Ser Lys Arg Asp Thr Lys Cys Gln Ser Pro Gly Ser Ser Gly Arg Arg  
20 25 30  
Arg Gly Pro Arg Pro His Ser Gly Xaa Ala Cys Cys Gly Pro Gly Ser  
35 40 45  
Gly Gly Gly Thr Trp Gly Val Ser Ser Trp His Cys Ser Val Ser Leu  
50 55 60  
Pro Lys Cys Ser His Ala Phe Ile Val Asp Phe Leu Tyr Phe Pro Phe  
65 70 75 80  
Ser Gly Glu Ala Ser Glu Arg Lys Arg Pro Asp Ser Gly Cys Ser Thr  
85 90 95  
Ser Lys Asp Thr Lys Tyr Gln Ser Val Tyr Val Ile Ser Glu Glu Lys  
100 105 110  
Asp Glu Cys Val Ile Ala  
115

<210> 18

<211> 173

<212> PRT

<213> Artificial Sequence

<220>

<223> Predicted amino acid sequence of human delta

<220>

<221> VARIANT

<222> 34, 35, 39, 44, 96

<223> Xaa = Any Amino Acid

<400> 18

Thr Met Asn Asn Leu Ala Asn Cys Gln Arg Glu Lys Asp Ile Ser Val  
1 5 10 15  
Ser Ile Ile Gly Ala Thr Ser Asp Gln Glu His Gln Gln Glu Gly Gly

20	25	30
Leu Xaa Xaa Gly Gly Pro Xaa Pro Thr Arg Met Xaa Phe Lys Ala Arg		
35	40	45
Tyr Pro Ser Val Asp Tyr Asn Ser Cys Arg Thr Ser Arg Val Thr Thr		
50	55	60
Pro Pro Ser Gly Arg Arg Thr Ala Ser Val Thr Pro Ser Ala Ser Pro		
65	70	80
Gln Ala Pro Gln Gly Gly Glu Gly Asp Pro Asp His Thr Gln Gly Xaa		
85	90	95
Arg Ala Ala Gly Arg Ala Gln Glu Gly Val Pro Gly Gly Cys Leu Pro		
100	105	110
Gly Thr Thr Ala Pro Phe Leu Phe Pro Asn Val Leu Met His Ser Leu		
115	120	125
Trp Ile Phe Ser Ile Phe Leu Leu Val Glu Lys His Leu Lys Glu Lys		
130	135	140
Gly Arg Thr Arg Ala Val Gln Leu Gln Lys Thr Pro Ser Thr Ser Arg		
145	150	160
Cys Thr Ser Tyr Pro Arg Arg Arg Thr Ser Ala Ser Ser		
165	170	

<210> 19  
<211> 60  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Predicted amino acid sequence of human delta

<220>  
<221> VARIANT  
<222> 1, 19, 23, 32, 33, 36, 43  
<223> Xaa = Any Amino Acid

<400> 19  
Xaa Thr Trp Arg Thr Ala Ser Val Arg Arg Thr Ser Gln Ser Ala Ser  
1               5               10               15  
Ser Gly Xaa Arg Gln Ile Xaa Asn Thr Asn Lys Lys Ala Asp Phe Xaa  
20               25               30  
Xaa Gly Asp Xaa Ser Val Arg Gln Glu Trp Xaa Ser Arg Pro Ala Thr  
35               40               45  
Pro Ala Trp Thr Ile Thr Arg Ala Gly Pro Gln Gly  
50               55               60

<210> 20  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Predicted amino acid sequence of human delta

<400> 20  
Arg His Arg Arg Gln Asp Val Ala Gln Gln Ala  
1               5               10

<210> 21  
<211> 61  
<212> PRT

<213> Artificial Sequence

<220>

<223> Predicted amino acid sequence of human delta

<400> 21

His	Gln	Val	Pro	Val	Pro	Arg	Leu	Leu	Arg	Glu	Glu	Lys	Gly	Thr	Pro
1															15
Thr	Thr	Leu	Arg	Gly	Cys	Val	Leu	Arg	Ala	Gly	Leu	Arg	Arg	Gly	Tyr
															30
Leu	Gly	Gly	Val	Phe	Leu	Glu	Pro	Leu	Leu	Arg	Phe	Ser	Ser	Gln	Met
															45
Phe	Ser	Cys	Ile	His	Cys	Gly	Phe	Ser	Leu	Phe	Ser	Phe			
50															60

<210> 22

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Predicted amino acid sequence of human delta

<400> 22

Lys	Lys	Lys	Ala	Gly	Leu	Gly	Leu	Phe	Asn	Phe	Lys	Lys	Arg	His	Gln
1															15
Val	Pro	Val	Gly	Val	Arg	His	Ile	Arg	Gly	Glu	Gly	Arg	Val	Arg	His
															30
Arg															

<210> 23

<211> 175

<212> PRT

<213> Artificial Sequence

<220>

<223> Predicted amino acid sequence of human delta

<220>

<221> VARIANT

<222> 25, 34, 35, 38, 97

<223> Xaa = Any Amino Acid

<400> 23

Thr	Met	Asn	Asn	Leu	Ala	Asn	Cys	Gln	Arg	Glu	Lys	Asp	Ile	Ser	Val
1															15
Ser	Ile	Ile	Gly	Ala	Thr	Gly	Ile	Xaa	Asn	Thr	Asn	Lys	Lys	Ala	Asp
															30
Phe	Xaa	Xaa	Gly	Asp	Xaa	Ser	Ser	Asp	Lys	Asn	Gly	Phe	Gln	Lys	Ala
															45
Arg	Tyr	Pro	Ser	Val	Asp	Tyr	Asn	Leu	Val	Gln	Asp	Leu	Lys	Gly	Asp
															60
Asp	Thr	Ala	Val	Arg	Thr	Ser	His	Ser	Lys	Arg	Asp	Thr	Lys	Cys	Gln
65															80
Ser	Pro	Gly	Ser	Ser	Gly	Arg	Arg	Arg	Gly	Pro	Arg	Pro	His	Ser	Gly
															95
Xaa	Ala	Cys	Cys	Gly	Pro	Gly	Ser	Gly	Gly	Gly	Thr	Trp	Gly	Val	Ser
															110
100															

Ser	Trp	Asn	His	Cys	Ser	Val	Ser	Leu	Pro	Lys	Cys	Ser	His	Ala	Phe
115							120					125			
Ile	Val	Asp	Phe	Leu	Tyr	Phe	Pro	Phe	Ser	Gly	Glu	Ala	Ser	Glu	Arg
130							135				140				
Lys	Arg	Pro	Asp	Ser	Gly	Cys	Ser	Thr	Ser	Lys	Asp	Thr	Lys	Tyr	Gln
145							150			155			160		
Ser	Val	Tyr	Val	Ile	Ser	Glu	Glu	Lys	Asp	Glu	Cys	Val	Ile	Ala	
							165		170				175		

<210> 24

<211> 2899

<212> DNA

<213> Artificial Sequence

<220>

<223> Consenses sequence of mouse delta and human delta

<220>

<221> misc\_feature

<222> 854, 973, 984, 1582, 1787, 1819, 1864, 1916, 1951, 2033, 2152, 2171, 2183, 2194, 2212, 2220, 2226, 2230, 2244, 2245, 2264, 2265, 2266, 2287

<223> n = A,T,C or G

<400> 24

gtccagcggt accatgggcc gtcggagcgc gctaccctt gccgtggct ctgcccgtct 60  
 gtgccaggtc tggagctccg gcgtatttga gctgaagctg caggagttcg tcaacaagaa 120  
 ggggctgctg gggAACCGCA actgctgccg cgggggctct ggcccgcctt gcgcctgcag 180  
 gaccttctt cgcttatgcc tcaaccacta ccaggccagc gtgtcaccgg agccaccctg 240  
 cacctacggc agtgctgtca cggcagtgtct gggtctcgac tccttcagcc tgcctsatkg 300  
 sgyasgsryc smccycgagg yckwcrqyaw csmyaagyyy gatatcgmmmy tycggcttca 360  
 cctggccrrgg yaccttctct ctgatyattg aagcyctcca yacagaytct ccygatgacc 420  
 tcgcaacaga aaacccagaa agactcatca gccgcctgrc cacycagagg cacctsackg 480  
 tgggmarga rtggctcycag gaccktkaca gyagcggccg cacrgacctc mrgtactcyt 540  
 accgsttygt gtgtgacgar cactactacg gagarggytg ctctgtkttc tgccgwccyc 600  
 gggaygaygc ctttyggccac ttcacctgyg gggasmgwgg ggagaarrtg tgcraccctg 660  
 gctggaaagg scmgtactgc acwgascra tctgyctgcc wggrtgtgat gascarcatg 720  
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 atgagtgyat ccgytaycca ggytgtctcc atggcacctg ccagcarccc tggcagtgya 840  
 actgccagga aggnntgggg ggcctttct gcaaccarga cctgaactac tgyacwcacc 900  
 ataagccstg cargoaatgga gccacctgca acmaaacacgg gccagggggg gctacacwtg 960  
 ktcyttggcc ggncykgggt ayanagggtg ccamctgyga agcttgggra ktrgaygagt 1020  
 tggmyccy agcccytgyy aagaacggag sgagctksac ggaycttcgg agracagctw 1080  
 ctcytgyacc tgcccwcccg gcttctaygg caarrtctgt garytgagyg ccatgacctg 1140  
 tgcrgayggc ctttgcttya ayggrrggwcg rtgytcagay arcccygayg gaggstacas 1200  
 ctgccrytgc cccttggct wctcyggctt caactgttag aagaaratkg ayywctgcrg 1260  
 ctcttcmyccy tggtaaayg gtgccaagtg tgtggacctc ggyraykcyt acctgtgccg 1320  
 stgccaggcy ggcttctcsg ggaggyactg ygasgacaay gtggaygact gygcctccctc 1380  
 cccgtgygcm aayggggca cctgccggga yrgygtgaac gacttgcct gyacctgccc 1440  
 rcctggctac acgggcarga actgcagyg cccygycagc aggtgygagc aygcaccctg 1500  
 ccayaatggg gccacctgcc acsagagggg ccascgtay wtgtgygagt gygcccrrrg 1560  
 ctayggsggy cccaaactgcc anttyctgct cccygaarcy gmccmccmrg scccayggtg 1620  
 gtggaaamtc msykararrm aymtaragr gcccrgggsgg gcccwtcccc tkggtggycg 1680  
 tgtgygcccgg ggttsrtscct gtcctcmmtgc tgctgtggg ctgtgcyyct gtggtggtct 1740  
 gcgtccggct gargctrca gaaaccrcc cyccascyya mcccctgnsgg grrgagacrg 1800  
 araccatgaa caacctrngc aaytgccagc gygagaagga crtytcwgyt agcatcatyg 1860  
 gggnyacsca catcaagaac accaacaaga aggccgactt ycacggggac cayrgngccr 1920  
 asaagaryrg cttyaaggyc cgmtacccmr nkgtggacta taacctcgk crrgacctca 1980  
 agggwgayga mrccrcsgtc agggayrcrc acagcaarcg tgacaccaag tgnagycmc 2040  
 agrgctcykg agrgargag aagggaycs ccgaccmaca ctyagggggt ggaggaagmw 2100

tcytgamaga aaaaggccrg astyygggyy trytcwactt tcaaargaca ancmangtac 2160  
magtcgggtgt nygtymtk tc ygnagragga agngtastg ygtyataggm rnytgaggtn 2220  
gtaarntggn agcgatgtgg caannttccc atttctcksa aaknnnattc cmmggatata 2280  
gcycgcgtga atgctkctga gagaggaagg gagagggaaac ccagggactg ytkytcagaa 2340  
ccaggttcag gcgaagctgg ttctctcaga gtttagcagag gcccggaca ctgccagcct 2400  
aggcttggc tgccgctgga ctgcctgctg gttgttcca ttgcactatg gacagttgct 2460  
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cgtgtgttat tttttggaa tttgtaaaaa tattttcat gatatctgt aagcttgagt 2700  
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<210> 25

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> sequence encoded by SEQ ID NO. 93 (degenerated  
oligo)

<400> 25

Glu Lys Asp Glu Cys Val Ile Ala

1 5

<210> 26

<211> 1981

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 559, 678, 689, 1287, 1492, 1524, 1569, 1621, 1656, 1738,  
1857, 1861, 1876, 1888, 1899, 1917, 1925, 1931, 1935, 1942,  
1943, 1952, 1953, 1954, 1968

<223> n = A,T,C or G

<400> 26

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tgacctcgca acagaaaacc cagaaagact catcagccgc ctggccaccc agaggcacct 180  
gacggtgggc gaggagtggt cccaggacct gcacagcagc ggccgcacgg acctcaagta 240  
ctcctaccgc ttcgtgtgtg acgaacacta ctacggagag ggctgctccg ttttctgccg 300  
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gcatggatt tgtgacaaac cagggaaatg caagtgcaga gtgggctggc agggccggt 480  
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acttggtctt tggccggnc ggggtacana gggtgccacc tgcgaagctt ggggattgga 720  
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tcctccccgt	gcgccaaacgg	gggcacctgc	cgggatggcg	tgaacgactt	ctcctgcacc	1140
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gacggagacc	atgaacaacc	tggncactg	ccagcgtgag	aaggacatct	cagtcagcat	1560
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gccccagggc	tcctcagggg	aggagaaggg	gaccccccac	ccacactcag	ggggtggagg	1800
aagcattttgc	aaagaaaaaag	gccggacttc	gggcttgttc	aactttcaaa	agacaancaa	1860
ngtacaagtc	ggtgtncgtc	attccgnag	gaggaaggnt	gactgcgtca	taggaanttg	1920
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<210> 27  
<211> 31  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Deduced amino acid sequence using the three  
possible ORF of human Delta contigs

<400> 27  
 His Trp Val Arg Ala Pro Leu Glu Val Asp Gly Ile Asp Lys Leu Asp  
   1               5                           10                           15  
 Ile Glu Phe Arg Leu His Leu Ala Gly His Leu Leu Ser Asp Tyr  
   20                                   25                                   30

<210> 28  
<211> 7  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Deduced amino acid sequence using the three  
possible ORF of human Delta contigs

<400> 28  
Ser Ser Pro His Arg Phe Ser  
1 5

<210> 29  
<211> 45  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Deduced amino acid sequence using the three  
possible ORF of human Delta contigs

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<400> 29
Pro Arg Asn Arg Lys Pro Arg Lys Thr His Gln Pro Pro Gly His Pro
   1           5                   10                  15
Glu Ala Pro Asp Gly Gly Arg Gly Val Val Pro Gly Pro Ala Gln Gln
   20          25                  30

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Arg Pro His Gly Pro Gln Val Leu Leu Pro Leu Arg Val  
35 40 45

<210> 30  
<211> 49  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Deduced amino acid sequence using the three  
possible ORF of human Delta contigs

<400> 30  
Arg Thr Leu Leu Arg Arg Gly Leu Leu Arg Phe Pro Ser Pro Gly Arg  
1 5 10 15  
Cys Leu Arg Pro Leu His Leu Trp Gly Ala Trp Gly Glu Ser Val Gln  
20 25 30  
Pro Trp Leu Glu Arg Ala Leu Leu His Arg Ala Asp Leu Pro Ala Trp  
35 40 45

Met

<210> 31  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Deduced amino acid sequence using the three  
possible ORF of human Delta contigs

<400> 31  
Ala Ala Trp Ile Leu  
1 5

<210> 32  
<211> 16  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Deduced amino acid sequence using the three  
possible ORF of human Delta contigs

<400> 32  
Gln Thr Arg Gly Met Gln Val Gln Ser Gly Leu Ala Gly Pro Val Leu  
1 5 10 15

<210> 33  
<211> 40  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Deduced amino acid sequence using the three  
possible ORF of human Delta contigs

<220>  
 <221> VARIANT  
 <222> 25  
 <223> Xaa = Any Amino Acid

<400> 33  
 Arg Val Tyr Pro Leu Ser Arg Leu Ser Pro Trp His Leu Pro Ala Ala  
 1 5 10 15  
 Leu Ala Val Gln Leu Pro Gly Arg Xaa Gly Gly Pro Phe Leu Gln Pro  
 20 25 30  
 Gly Pro Glu Leu Leu His Thr Pro  
 35 40

<210> 34  
 <211> 45  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Deduced amino acid sequence using the three  
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<220>  
 <221> VARIANT  
 <222> 27  
 <223> Xaa = Any Amino Acid

<400> 34  
 Ala Leu Gln Glu Trp Ser His Leu Gln Gln Thr Arg Ala Arg Gly Ser  
 1 5 10 15  
 Tyr Thr Trp Ser Leu Ala Gly Leu Gly Tyr Xaa Gly Cys His Leu Arg  
 20 25 30  
 Ser Leu Gly Ile Gly Arg Val Val Asp Pro Ser Pro Trp  
 35 40 45

<210> 35  
 <211> 196  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Deduced amino acid sequence using the three  
 possible ORF of human Delta contigs

<220>  
 <221> VARIANT  
 <222> 166, 179  
 <223> Xaa = Any Amino Acid

<400> 35  
 Glu Arg Arg Glu Leu Asp Gly Ser Ser Glu Asn Ser Tyr Ser Cys Thr  
 1 5 10 15  
 Cys Pro Pro Gly Phe Tyr Gly Lys Ile Cys Glu Leu Ser Ala Met Thr  
 20 25 30  
 Cys Ala Asp Gly Pro Cys Phe Asn Gly Gly Arg Cys Ser Asp Pro Asp  
 35 40 45  
 Gly Gly Tyr Ser Cys Arg Cys Pro Val Gly Tyr Ser Gly Phe Asn Cys  
 50 55 60  
 Glu Lys Lys Ile Asp Tyr Cys Ser Ser Pro Cys Ser Asn Gly Ala

65	70	75	80
Lys Cys Val Asp Leu Gly Asp Ala Tyr	Leu Cys Arg Gly Gln Ala Gly		
85	90		95
Phe Ser Gly Arg His Cys Asp Asp Asn Val Asp Asp Cys Ala Ser Ser			
100	105	110	
Pro Cys Ala Asn Gly Gly Thr Cys Arg Asp Gly Val Asn Asp Phe Ser			
115	120	125	
Cys Thr Cys Pro Pro Gly Tyr Thr Gly Arg Asn Cys Ser Ala Pro Ala			
130	135	140	
Ser Arg Cys Glu His Ala Pro Cys His Asn Gly Ala Thr Cys His Glu			
145	150	155	160
Arg Gly His Arg Tyr Xaa Cys Glu Cys Ala Arg Ser Tyr Gly Gly Pro			
165	170	175	
Asn Cys Xaa Phe Leu Leu Pro Glu Thr Ala Pro Pro Ala Pro Arg Trp			
180	185	190	
Trp Lys Leu Pro			
195			

<210> 36

<211> 65

<212> PRT

<213> Artificial Sequence

<220>

<223> Deduced amino acid sequence using the three  
possible ORF of human Delta contigs

<220>

<221> VARIANT

<222> 51

<223> Xaa = Any Amino Acid

<400> 36

Lys Asn Leu Lys Gly Pro Gly Gly Ala His Pro Leu Gly Gly Arg Val			
1	5	10	15
Arg Arg Gly His Pro Cys Pro His Ala Ala Ala Gly Leu Cys Arg Cys			
20	25	30	
Gly Gly Leu Arg Pro Ala Glu Ala Ala Glu Ala Pro Ala Pro Ser Arg			
35	40	45	
Pro Leu Xaa Gly Gly Asp Gly Asp His Glu Gln Pro Gly Gln Leu Pro			
50	55	60	

Ala

65

<210> 37

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Deduced amino acid sequence using the three  
possible ORF of human Delta contigs

<220>

<221> VARIANT

<222> 28, 39

<223> Xaa = Any Amino Acid

<400> 37

Glu Gly His Leu Ser Gln His His Arg Gly His Ala Asp Gln Glu His  
1 5 10 15  
Gln Gln Glu Gly Gly Leu Pro Arg Gly Pro Gln Xaa Arg Gln Glu Trp  
20 25 30  
Leu Gln Gly Pro Leu Pro Xaa Gly Gly Leu  
35 40

<210> 38  
<211> 7  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Deduced amino acid sequence using the three  
possible ORF of human Delta contigs

<400> 38  
Pro Arg Ala Gly Pro Gln Gly  
1 5

<210> 39  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Deduced amino acid sequence using the three  
possible ORF of human Delta contigs

<400> 39  
Arg His Arg Arg Gln Gly Arg Ala Gln Gln Ala  
1 5 10

<210> 40  
<211> 57  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Deduced amino acid sequence using the three  
possible ORF of human Delta contigs

<220>  
<221> VARIANT  
<222> 4, 43, 45, 50, 54  
<223> Xaa = Any Amino Acid

<400> 40  
His Gln Val Xaa Ala Pro Gly Leu Leu Arg Gly Gly Glu Gly Asp Pro  
1 5 10 15  
Arg Pro Thr Leu Arg Gly Trp Arg Lys His Leu Glu Arg Lys Arg Pro  
20 25 30  
Asp Phe Gly Leu Val Gln Leu Ser Lys Asp Xaa Gln Xaa Thr Ser Arg  
35 40 45  
Cys Xaa Ser Phe Pro Xaa Glu Glu Gly  
50 55

<210> 41  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Deduced amino acid sequence using the three possible ORF of human Delta contigs

<220>  
<221> VARIANT  
<222> 5, 8  
<223> Xaa = Any Amino Acid

<400> 41  
Leu Arg His Arg Xaa Leu Arg Xaa  
1 5

<210> 42  
<211> 13  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Deduced amino acid sequence using the three possible ORF of human Delta contigs

<220>  
<221> VARIANT  
<222> 1, 4, 5  
<223> Xaa = Any Amino Acid

<400> 42  
Xaa Trp Lys Xaa Xaa Pro Gly Phe Arg Phe Gln Ser Phe  
1 5 10

<210> 43  
<211> 276  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Deduced amino acid sequence using the three possible ORF of human Delta contigs

<220>  
<221> VARIANT

<222> 226, 230  
<223> Xaa = Any Amino Acid

<400> 43  
Ile Gly Tyr Gly Pro Pro Ser Arg Ser Thr Val Ser Ile Ser Leu Ile  
1 5 10 15  
Ser Asn Ser Gly Phe Thr Trp Pro Gly Thr Phe Ser Leu Ile Ile Glu  
20 25 30  
Ala Leu His Thr Asp Ser Pro Asp Asp Leu Ala Thr Glu Asn Pro Glu  
35 40 45

Arg	Leu	Ile	Ser	Arg	Leu	Ala	Thr	Gln	Arg	His	Leu	Thr	Val	Gly	Glu
50				55					60						
Glu	Trp	Ser	Gln	Asp	Leu	His	Ser	Ser	Gly	Arg	Thr	Asp	Leu	Lys	Tyr
65				70					75						80
Ser	Tyr	Arg	Phe	Val	Cys	Asp	Glu	His	Tyr	Tyr	Gly	Glu	Gly	Cys	Ser
					85				90						95
Val	Phe	Cys	Arg	Pro	Arg	Asp	Asp	Ala	Phe	Gly	His	Phe	Thr	Cys	Gly
				100				105				110			
Glu	Arg	Gly	Glu	Lys	Val	Cys	Asn	Pro	Gly	Trp	Lys	Gly	Pro	Tyr	Cys
				115				120				125			
Thr	Glu	Pro	Ile	Cys	Leu	Pro	Gly	Cys	Asp	Glu	Gln	His	Gly	Phe	Cys
				130				135				140			
Asp	Lys	Pro	Gly	Glu	Cys	Lys	Cys	Arg	Val	Gly	Trp	Gln	Gly	Arg	Tyr
	145				150				155						160
Cys	Asp	Glu	Cys	Ile	Arg	Tyr	Pro	Gly	Cys	Leu	His	Gly	Thr	Cys	Gln
				165				170							175
Gln	Pro	Trp	Gln	Cys	Asn	Cys	Gln	Glu	Gly	Trp	Gly	Gly	Leu	Phe	Cys
				180				185				190			
Asn	Gln	Asp	Leu	Asn	Tyr	Cys	Thr	His	His	Lys	Pro	Cys	Lys	Asn	Gly
				195				200				205			
Ala	Thr	Cys	Asn	Lys	His	Gly	Pro	Gly	Gly	Ala	Thr	Leu	Gly	Leu	Trp
				210				215				220			
Pro	Xaa	Trp	Gly	Thr	Xaa	Gly	Ala	Thr	Cys	Glu	Ala	Trp	Gly	Leu	Asp
	225				230				235						240
Glu	Leu	Leu	Thr	Pro	Ala	Leu	Gly	Lys	Asn	Gly	Gly	Ser	Leu	Thr	Asp
				245				250				255			
Leu	Arg	Arg	Thr	Ala	Thr	Pro	Val	Pro	Ala	His	Pro	Ala	Ser	Thr	Ala
				260				265				270			
Lys	Ser	Val	Asn												
				275											

<210> 44

<211> 93

<212> PRT

<213> Artificial Sequence

<220>

<223> Deduced amino acid sequence using the three  
possible ORF of human Delta contigs

<400> 44

Pro	Val	Arg	Thr	Ala	Leu	Ala	Leu	Thr	Gly	Val	Gly	Ala	Gln	Thr	Ala
1				5				10							15
Pro	Met	Glu	Gly	Thr	Ala	Ala	Ala	Ala	Pro	Trp	Ala	Thr	Pro	Ala	Ser
				20				25							30
Thr	Val	Arg	Arg	Lys	Leu	Thr	Thr	Ala	Ala	Leu	His	Pro	Val	Leu	Met
				35				40							45
Val	Pro	Ser	Val	Trp	Thr	Ser	Val	Met	Pro	Thr	Cys	Ala	Ala	Ala	Arg
				50				55				60			
Pro	Ala	Ser	Arg	Gly	Gly	Thr	Val	Thr	Thr	Thr	Trp	Thr	Thr	Ala	Pro
	65				70				75						80
Pro	Pro	Arg	Ala	Pro	Thr	Gly	Ala	Pro	Ala	Gly	Met	Ala			
				85				90							

<210> 45

<211> 74

<212> PRT

<213> Artificial Sequence

<220>  
<223> Deduced amino acid sequence using the three  
possible ORF of human Delta contigs

<220>  
<221> VARIANT  
<222> 55  
<223> Xaa = Any Amino Acid

<400> 45  
Thr Thr Ser Pro Ala Pro Ala Arg Leu Ala Thr Arg Ala Gly Thr Ala  
1 5 10 15  
Val Pro Pro Pro Ala Gly Ala Ser Thr His Pro Ala Thr Met Gly Pro  
20 25 30  
Pro Ala Thr Arg Gly Ala Thr Ala Ile Cys Ala Ser Val Pro Glu Ala  
35 40 45  
Thr Gly Val Pro Thr Ala Xaa Ser Cys Pro Lys Leu Pro Pro Arg Pro  
50 55 60  
His Gly Gly Gly Asn Ser Pro Lys Lys Thr  
65 70

<210> 46  
<211> 187  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Deduced amino acid sequence using the three  
possible ORF of human Delta contigs

<220>  
<221> VARIANT  
<222> 47, 58, 73, 101, 128, 167, 168, 181, 187  
<223> Xaa = Any Amino Acid

<400> 46  
Lys Gly Arg Gly Gly Pro Ile Pro Leu Val Asp Val Cys Ala Gly Val  
1 5 10 15  
Ile Leu Val Leu Met Leu Leu Gly Cys Ala Ala Val Val Val Cys  
20 25 30  
Val Arg Leu Arg Leu Gln Lys His Arg Pro Pro Ala Asp Pro Xaa Arg  
35 40 45  
Gly Glu Thr Glu Thr Met Asn Asn Leu Xaa Asn Cys Gln Arg Glu Lys  
50 55 60  
Asp Ile Ser Val Ser Ile Ile Gly Xaa Thr Gln Ile Lys Asn Thr Asn  
65 70 75 80  
Lys Lys Ala Asp Phe His Gly Asp His Ala Asp Lys Asn Gly Phe Lys  
85 90 95  
Ala Arg Tyr Pro Xaa Val Asp Tyr Asn Leu Val Gln Asp Leu Lys Gly  
100 105 110  
Asp Asp Thr Ala Val Arg Asp Ala His Ser Lys Arg Asp Thr Lys Xaa  
115 120 125  
Gln Pro Gln Gly Ser Ser Gly Glu Glu Gly Thr Pro Asp Pro His Ser  
130 135 140  
Gly Gly Gly Ser Ile Leu Lys Glu Lys Gly Arg Thr Ser Gly Leu  
145 150 155 160  
Phe Asn Phe Gln Lys Thr Xaa Xaa Val Gln Val Gly Val Arg His Phe  
165 170 175  
Arg Arg Arg Lys Xaa Asp Cys Val Ile Gly Xaa

180

185

<210> 47  
<211> 20  
<212> PRT  
<213> Artificial Sequence  
  
<220>  
<223> Deduced amino acid sequence using the three possible ORF of human Delta contigs  
  
<220>  
<221> VARIANT  
<222> 2, 4, 5, 7, 8, 11, 16  
<223> Xaa = Any Amino Acid  
  
<400> 47  
Gly Xaa Lys Xaa Xaa Val Xaa Xaa Gly Lys Xaa Ser Pro Asp Ser Xaa  
1 5 10 15  
Phe Lys Val Phe  
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<210> 48  
<211> 12  
<212> PRT  
  
<213> Artificial Sequence  
  
<220>  
<223> Deduced amino acid sequence using the three possible ORF of human Delta contigs  
  
<400> 48  
Leu Gly Thr Gly Pro Pro Arg Gly Arg Arg Tyr Arg  
1 5 10  
  
<210> 49  
  
<211> 13  
<212> PRT  
<213> Artificial Sequence  
  
<220>  
<223> Deduced amino acid sequence using the three possible ORF of human Delta contigs  
  
<400> 49  
Tyr Arg Ile Pro Ala Ser Pro Gly Arg Ala Pro Ser Leu  
1 5 10  
  
<210> 50  
<211> 30  
<212> PRT  
<213> Artificial Sequence  
  
<220>  
<223> Deduced amino acid sequence using the three

possible ORF of human Delta contigs

<400> 50  
Leu Leu Lys Leu Ser Thr Gln Ile Leu Leu Met Thr Ser Gln Gln Lys  
1 5 10 15  
Thr Gln Lys Asp Ser Ser Ala Ala Trp Pro Pro Arg Gly Thr  
20 25 30

<210> 51  
<211> 135  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Deduced amino acid sequence using the three  
possible ORF of human Delta contigs

<220>  
<221> VARIANT  
<222> 126  
<223> Xaa = Any Amino Acid

<400> 51  
Arg Trp Ala Arg Ser Gly Pro Arg Thr Cys Thr Ala Ala Ala Ala Arg  
1 5 10 15  
Thr Ser Ser Thr Pro Thr Ala Ser Cys Val Thr Asn Thr Thr Glu  
20 25 30  
Arg Ala Ala Pro Phe Ser Ala Val Pro Gly Thr Met Pro Ser Ala Thr  
35 40 45  
Ser Pro Val Cys Ser Val Gly Arg Lys Cys Ala Thr Leu Ala Gly Lys  
50 55 60  
Gly Pro Thr Ala Gln Ser Arg Ser Ala Cys Leu Asp Val Met Ser Ser  
65 70 75 80  
Met Asp Phe Phe Val Thr Asn Gln Asn Ala Ser Ala Glu Trp Ala Gly  
85 90 95  
Arg Ala Gly Thr Val Thr Ser Val Ser Ala Ile Gln Ala Val Ser Met  
100 105 110  
Ala Pro Ala Ser Ser Pro Gly Ser Ala Thr Ala Arg Lys Xaa Gly Gly  
115 120 125  
Ala Phe Ser Ala Thr Arg Thr  
130 135

<210> 52  
<211> 46  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Deduced amino acid sequence using the three  
possible ORF of human Delta contigs

<220>  
<221> VARIANT  
<222> 30, 33  
<223> Xaa = Any Amino Acid

<400> 52  
Thr Thr Ala His Thr Ile Ser Pro Ala Arg Met Glu Pro Pro Ala Thr

1 5 10 15  
Asn Thr Gly Gln Gly Glu Leu His Leu Val Phe Gly Arg Xaa Gly Val  
20 25 30  
Xaa Arg Val Pro Pro Ala Lys Leu Gly Asp Trp Thr Ser Cys  
35 40 45

<210> 53  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Deduced amino acid sequence using the three  
possible ORF of human Delta contigs

<400> 53  
Pro Gln Pro Leu Val Arg Thr Glu Gln Glu  
1 5 10

<210> 54  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Deduced amino acid sequence using the three  
possible ORF of human Delta contigs

<400> 54  
Arg Ile Phe Gly Glu Gln Leu Leu Leu Tyr Leu Pro Thr Arg Leu Leu  
1 5 10 15  
Arg Gln Asn Leu  
20

<210> 55  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Deduced amino acid sequence using the three  
possible ORF of human Delta contigs

<400> 55  
Ile Glu Cys His Asp Leu Cys Gly Arg Pro Leu Leu  
1 5 10

<210> 56  
<211> 25  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Deduced amino acid sequence using the three  
possible ORF of human Delta contigs

<400> 56

Arg Gly Ser Val Leu Arg Gln Pro Arg Trp Arg Val Gln Leu Pro Leu  
1 5 10 15  
Pro Arg Gly Leu Leu Arg Leu Gln Leu  
20 25

<210> 57  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Deduced amino acid sequence using the three  
possible ORF of human Delta contigs

<400> 57  
Leu Leu Gln Leu Phe Thr Leu Phe  
1 5

<210> 58  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Deduced amino acid sequence using the three  
possible ORF of human Delta contigs

<400> 58  
Trp Cys Gln Val Cys Gly Pro Arg  
1 5

<210> 59  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Deduced amino acid sequence using the three  
possible ORF of human Delta contigs

<400> 59  
Cys Leu Pro Val Pro Leu Pro Gly Arg Leu Leu Gly Glu Ala Leu  
1 5 10 15

<210> 60  
<211> 131  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Deduced amino acid sequence using the three  
possible ORF of human Delta contigs

<220>  
<221> VARIANT  
<222> 76  
<223> Xaa = Any Amino Acid

<400> 60  
Arg Gln Arg Gly Arg Leu Arg Leu Leu Pro Val Arg Gln Gly His Leu  
1 5 10 15  
Pro Gly Trp Arg Glu Arg Leu Leu His Leu Pro Ala Trp Leu His  
20 25 30  
Gly Gln Glu Leu Gln Cys Pro Arg Gln Gln Val Arg Ala Arg Thr Leu  
35 40 45  
Pro Gln Trp Gly His Leu Pro Arg Glu Gly Pro Pro Leu Phe Val Arg  
50 55 60  
Val Cys Pro Lys Leu Arg Gly Ser Gln Leu Pro Xaa Pro Ala Pro Arg  
65 70 75 80  
Asn Cys Pro Pro Gly Pro Thr Val Val Glu Thr Pro Leu Lys Lys Pro  
85 90 95  
Lys Arg Ala Gly Gly Pro Ser Pro Trp Trp Thr Cys Ala Pro Gly  
100 105 110  
Ser Ser Leu Ser Ser Cys Cys Cys Trp Ala Val Pro Leu Trp Trp Ser  
115 120 125  
Ala Ser Gly  
130

<210> 61

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Deduced amino acid sequence using the three  
possible ORF of human Delta contigs

<220>

<221> VARIANT

<222> 12

<223> Xaa = Any Amino Acid

<400> 61

Gly Cys Arg Ser Thr Gly Pro Gln Pro Thr Pro Xaa Gly Gly Arg Arg  
1 5 10 15

Arg Pro

<210> 62

<211> 98

<212> PRT

<213> Artificial Sequence

<220>

<223> Deduced amino acid sequence using the three  
possible ORF of human Delta contigs

<220>

<221> VARIANT

<222> 4, 19, 36, 48, 75

<223> Xaa = Any Amino Acid

<400> 62

Thr Thr Trp Xaa Thr Ala Ser Val Arg Arg Thr Ser Gln Ser Ala Ser  
1 5 10 15  
Ser Gly Xaa Arg Arg Ser Arg Thr Pro Thr Arg Arg Arg Thr Ser Thr

20	25	30
Gly Thr Thr Xaa Pro Thr Arg Met Ala Ser Arg Pro Ala Thr Gln Xaa		
35	40	45
Trp Thr Ile Thr Ser Cys Arg Thr Ser Arg Val Thr Thr Pro Pro Ser		
50	55	60
Gly Thr Arg Thr Ala Ser Val Thr Pro Ser Xaa Ser Pro Arg Ala Pro		
65	70	75
Gln Gly Arg Arg Arg Cys Pro Pro Thr His Thr Gln Gly Val Glu Glu		
85	90	95
Ala Ser		

<210> 63  
<211> 33  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Deduced amino acid sequence using the three  
possible ORF of human Delta contigs

<220>  
<221> VARIANT  
<222> 16, 17, 22, 26, 30  
<223> Xaa = Any Amino Acid

<400> 63  
Lys Lys Lys Ala Gly Leu Arg Ala Cys Ser Thr Phe Lys Arg Gln Xaa  
1 5 10 15  
Xaa Tyr Lys Ser Val Xaa Val Ile Ser Xaa Gly Gly Arg Xaa Thr Ala  
20 25 30  
Ser

<210> 64  
<211> 22  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Deduced amino acid sequence using the three  
possible ORF of human Delta contigs

<220>  
<221> VARIANT  
<222> 2, 6, 8, 10, 13, 14, 19  
<223> Xaa = Any Amino Acid

<400> 64  
Glu Xaa Glu Val Val Xaa Trp Xaa Leu Xaa Leu Glu Xaa Xaa Pro Arg  
1 5 10 15  
Ile Pro Xaa Ser Lys Phe  
20

<210> 65  
<211> 192  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Composite human delta (H-Delta-1) amino acid sequence

<400> 65  
Gly Phe Thr Trp Pro Gly Thr Phe Ser Leu Ile Ile Glu Ala Leu His  
1 5 10 15  
Thr Asp Ser Pro Asp Asp Leu Ala Thr Glu Asn Pro Glu Arg Leu Ile  
20 25 30  
Ser Arg Leu Ala Thr Gln Arg His Leu Thr Val Gly Glu Glu Trp Ser  
35 40 45  
Gln Asp Leu His Ser Ser Gly Arg Thr Asp Leu Lys Tyr Ser Tyr Arg  
50 55 60  
Phe Val Cys Asp Glu His Tyr Tyr Gly Glu Gly Cys Ser Val Phe Cys  
65 70 75 80  
Arg Pro Arg Asp Asp Ala Phe Gly His Phe Thr Cys Gly Glu Arg Gly  
85 90 95  
Glu Lys Val Cys Asn Pro Gly Trp Lys Gly Pro Tyr Cys Thr Glu Pro  
100 105 110  
Ile Cys Leu Pro Gly Cys Asp Glu Gln His Gly Phe Cys Asp Lys Pro  
115 120 125  
Gly Glu Cys Lys Cys Arg Val Gly Trp Gln Gly Arg Tyr Cys Asp Glu  
130 135 140  
Cys Ile Arg Tyr Pro Gly Cys Leu His Gly Thr Cys Gln Gln Pro Trp  
145 150 155 160  
Gln Cys Asn Cys Gln Glu Gly Trp Gly Gly Leu Phe Cys Asn Gln Asp  
165 170 175  
Leu Asn Tyr Cys Thr His His Lys Pro Cys Lys Asn Gly Ala Thr Cys  
180 185 190

<210> 66  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Composite human delta (H-Delta-1) amino acid sequence

<400> 66  
Thr Asn Thr Gly Gln Gly  
1 5

<210> 67  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Composite human delta (H-Delta-1) amino acid sequence

<400> 67  
Lys Asn Gly Gly Ser Leu Thr Asp Leu  
1 5

<210> 68  
<211> 157  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Composite human delta (H-Delta-1) amino acid sequence

<400> 68  
Glu Asn Ser Tyr Ser Cys Thr Cys Pro Pro Gly Phe Tyr Gly Lys Ile  
1 5 10 15  
Cys Glu Leu Ser Ala Met Thr Cys Ala Asp Gly Pro Cys Phe Asn Gly  
20 25 30  
Gly Arg Cys Ser Asp Ser Pro Asp Gly Gly Tyr Ser Cys Arg Cys Pro  
35 40 45  
Val Gly Tyr Ser Gly Phe Asn Cys Glu Lys Lys Ile Asp Tyr Cys Ser  
50 55 60  
Ser Ser Pro Cys Ser Asn Gly Ala Lys Cys Val Asp Leu Gly Asp Ala  
65 70 75 80  
Tyr Leu Cys Arg Cys Gln Ala Gly Phe Ser Gly Arg His Cys Asp Asp  
85 90 95  
Asn Val Asp Asp Cys Ala Ser Ser Pro Cys Ala Asn Gly Gly Thr Cys  
100 105 110  
Arg Asp Gly Val Asn Asp Phe Ser Cys Thr Cys Pro Pro Gly Tyr Thr  
115 120 125  
Gly Arg Asn Cys Ser Ala Pro Ala Ser Arg Cys Glu His Ala Pro Cys  
130 135 140  
His Asn Gly Ala Thr Cys His Glu Arg Gly His Arg Tyr  
145 150 155

<210> 69  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Composite human delta (H-Delta-1) amino acid sequence

<400> 69  
Cys Glu Cys Ala Arg Ser Tyr Gly Gly Pro Asn Cys  
1 5 10

<210> 70  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Composite human delta (H-Delta-1) amino acid sequence

<400> 70  
Phe Leu Leu Pro Glu  
1 5

<210> 71

<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Composite human delta (H-Delta-1) amino acid sequence

<400> 71  
Pro Pro Gly Pro  
1

<210> 72  
<211> 25  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Composite human delta (H-Delta-1) amino acid sequence

<400> 72  
Leu Leu Leu Gly Cys Ala Ala Val Val Val Cys Val Arg Leu Arg Leu  
1 5 10 15  
Gln Lys His Arg Pro Pro Ala Asp Pro  
20 25

<210> 73  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Composite human delta (H-Delta-1) amino acid sequence

<400> 73  
Arg Gly Glu Thr Glu Thr Met Asn Asn Leu  
1 5 10

<210> 74  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Composite human delta (H-Delta-1) amino acid sequence

<400> 74  
Asn Cys Gln Arg Glu Lys Asp Ile Ser Val Ser Ile Ile Gly  
1 5 10

<210> 75  
<211> 16  
<212> PRT

<213> Artificial Sequence

<220>

<223> Composite human delta (H-Delta-1) amino acid sequence

<400> 75

Thr Gln Ile Lys Asn Thr Asn Lys Lys Ala Asp Phe His Gly Asp His  
1 5 10 15

<210> 76

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Composite human delta (H-Delta-1) amino acid sequence

<400> 76

Ala Asp Lys Asn Gly Phe Lys Ala Arg Tyr Pro  
1 5 10

<210> 77

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Composite human delta (H-Delta-1) amino acid sequence

<400> 77

Val Asp Tyr Asn Leu Val Gln Asp Leu Lys Gly Asp Asp Thr Ala Val  
1 5 10 15  
Arg Asp Ala His Ser Lys Arg Asp Thr Lys  
20 25

<210> 78

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Composite human delta (H-Delta-1) amino acid sequence

<400> 78

Gln Pro Gln Gly Ser Ser Gly Glu Glu Lys Gly Thr Pro  
1 5 10

<210> 79

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Composite human delta (H-Delta-1) amino acid sequence

<400> 79  
Pro Thr Leu Arg  
1

<210> 80  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Composite human delta (H-Delta-1) amino acid sequence

<400> 80  
Arg Lys Arg Pro  
1

<210> 81  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Degenerated oligo as primer

<220>  
<221> VARIANT  
<222> 6, 12, 18, 21  
<223> n = I (Inosine)

<400> 81  
ttcggnttya cntggccnngg nac

23

<210> 82  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Degenerated oligo as primer

<220>  
<221> VARIANT  
<222> 3, 9, 12, 15  
<223> n = I (Inosine)

<400> 82  
tcnatgcang tnccnccrtt

20

<210> 83  
<211> 8  
<212> PRT  
<213> Drosophila

<400> 83  
Phe Gly Phe Thr Trp Pro Gly Thr

1 5

<210> 84  
<211> 7  
<212> PRT  
<213> Drosophila

<400> 84  
Asn Gly Gly Thr Cys Ile Asp  
1 5

<210> 85  
<211> 12  
<212> PRT  
<213> Drosophila

<400> 85  
Ser Ile Pro Pro Gly Ser Arg Thr Ser Leu Gly Val  
1 5 10

<210> 86  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Primer 1 for PCR

<220>  
<221> VARIANT  
<222> 3, 9, 15, 18, 21  
<223> n = I (Inosine)

<400> 86  
ggnttcacnt ggccnggnac ntt

23

<210> 87  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Primer 2 for PCR

<220>  
<221> VARIANT  
<222> 3, 6, 18  
<223> n = I (Inosine)

<400> 87  
gtncncncrt tyttrcangg rtt

23

<210> 88  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>

<223> EGF-like repeats encoded by SEQ ID NO. 87

<400> 88

Asn Pro Cys Lys Asn Gly Gly Thr  
1 5

<210> 89

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> degenerated oligo primer

<220>

<221> VARIANT

<222> 3, 15, 18

<223> n = I (Inosine)

<400> 89

acnatgaaya ayctngcnaa ytg

23

<210> 90

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> amino acid encoded by SEQ ID NO. 89

<400> 90

Thr Met Asn Asn Leu Ala Asn Cys

1 5

<210> 91

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> degenerated oligo primer

<220>

<221> VARIANT

<222> 6, 9, 21

<223> n = I (Inosine)

<400> 91

acrtanacng aytgrtaytt ngt

23

<210> 92

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> amino acid sequence encoded by SEQ ID NO. 91

<400> 92

Thr Lys Tyr Gln Ser Val Tyr Val  
1 5

<210> 93  
<211> 23

<212> DNA  
<213> Artificial Sequence

<220>  
<223> degenerated oligo

<220>  
<221> VARIANT  
<222> 6  
<223> n = I (Inosine)

<400> 93  
gcdatnacrc aytcrtcytt ytc

23

<210> 94  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> amino acid sequence endoced by SEQ ID NO. 86

<400> 94  
Gly Phe Thr Trp Pro Gly Thr Phe  
1 5